(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 25 August 2005 (25.08.2005)

PCT

(10) International Publication Number WO 2005/077289 A2

(51) International Patent Classification⁷: 17/08

A61B 17/80,

(21) International Application Number:

PCT/IT2005/000076

(22) International Filing Date: 15 February 2005 (15.02.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: RM2004A000082 16 February 2004 (16.02.2004) IT

(71) Applicant (for all designated States except US): SIC BREVETTI S.R.L. [IT/IT]; Via Concesio, 325, I-00188 Roma (IT).

(72) Inventor; and

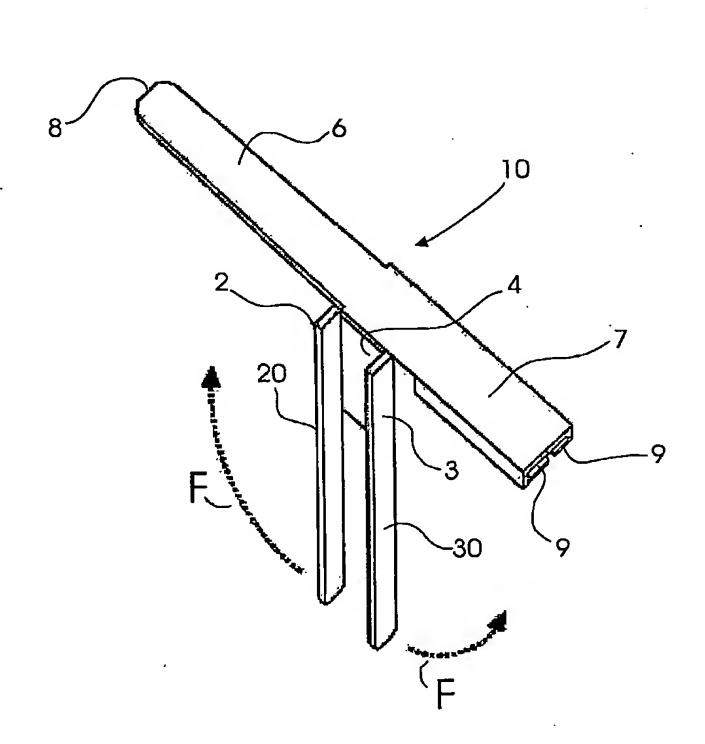
(75) Inventor/Applicant (for US only): ZEITANI, Jacob [IL/IT]; Vicolo della Frusta, 8, I-00153 Roma (IT).

(74) Agent: CIPRIANI, Guido; C & C Brevetti e Marchi s.r.l., Via Prisciano, 28, I-00136 Roma (IT).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,

[Continued on next page]

(54) Title: STERNUM REINFORCING DEVICE TO BE USED AFTER A STERNOTOMY OR A STERNAL FRACTURE



(57) Abstract: A sternum reinforcing device to be used after a sternotomy or a sternal fracture, made of a biocompatible material, comprises an elongated modular member (10) with a pair of legs (20, 30), that are joined each other by a body portion (4), and a pair of arms (6, 7). The legs (20, 30) can be fitted in an intercostal space of the thorax of a patient, laterally to the sternum, and can be bent in a mutually opposite direction, on the internal side of the thorax, after being fitted therein. The arms (6, 7), extending from one side to the other of the body portion (4) and orthogonally to the pair of legs (20, 30), constitute a male part and a female part, respectively, of a prismatic type coupling for consecutive modular members.

WO 2005/077289 A2



SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.